1. Define a function in Python. Write a function that calculates the factorial of a given number.
2. Explain the concept of scope in Python. Differentiate between global and local variables.
3. Describe the purpose of modules in Python. Create a custom module that includes a function to calculate the area of a circle.
4. Write a Python program that imports the math module and uses it to calculate the square root of a user-provided number.
5. Define a lambda function in Python. Write a lambda function that calculates the sum of two numbers.